

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspib.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,446	08/24/2001	Frank Chethik	01-1005	01-1005 3646	
7590 10/15/2003			EXAMINER		
Keith D. Nelson			NGUYEN, DUNG T		
Lockheed Martin		T T			
Building 220, M	Iail Stop A08	ART UNIT	PAPER NUMBER		
P.O. Box 49041		2828			
San Jose, CA	95161-9041	DATE MAILED: 10/15/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

•	_				A				
		Application	on No.	Applicant(s)					
Office Action Summary		09/939,44	6	CHETHIK, FRANK	<				
		Examin r		Art Unit					
	•	Dung (Mic	hael) T Nguy n	2828					
Th MAILING DATE of this communication app ars on th cov r sheet with th correspond nce address									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)☐ Responsiv	e to communication(s) filed	on							
2a)☐ This action	is FINAL . 2b)	oxtimes This action is	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ Claim(s) <u>1-</u>	5 is/are pending in the appli	cation.							
4a) Of the a	bove claim(s) is/are v	vithdrawn from cor	nsideration.	<i>A</i> . 0					
5) Claim(s)	is/are allowed.			Paul P					
5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. PAUL IP									
7) Claim(a) is/org objected to					EVMINITE:				
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 									
Attachment(s)									
	s Cited (PTO-892) on's Patent Drawing Review (PTO- re Statement(s) (PTO-1449) Paper			nary (PTO-413) Paper No nal Patent Application (PT					

Application/Control Number: 09/939,446

Art Unit: 2828

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mead (US4912716) in view of Taylor et al. (US4666255). Mead shows in Fig.3 a laser oscillator 13 and a microwave oscillator 18. Mead does not disclose a single sideband mixer. Taylor teach a single sideband mixer (modulator) (col.1, 1.18-29) and it would have been obvious to one of ordinary skill to understand that a single sideband mixer **must include** the elements recited in claims 2 and 4 in order to function as a single sideband mixer. Therefore, for the benefit of outputting a single controlled frequency signal, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Mead a single sideband mixer as taught by Taylor.

Citation of The Pertinent References

The following US patents are being made of record, even though they were not relied upon in this Office action, for being similar in subject matter, and may be relied upon in any future Office Actions: 5289252.

Application/Control Number: 09/939,446

Art Unit: 2828

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (703) 305-7159. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Nguyen (Michael) Dung

PAUL IP SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Paul Sp

Page 3